

LOCUS PLAN SCALE 1"=500"

EXISTING CONDITIONS NOTES:

1. THIS PLAN WAS PREPARED BY H. S. & T. GROUP, INC. (HS&T) OF WORCESTER, MASSACHUSETTS. AN ON THE GROUND BOUNDARY AND TOPOGRAPHIC SURVEY WAS PERFORMED FOR THIS PARCEL BY H. S. & T. GROUP, INC. ON SEPTEMBER 22, 26 AND 27, 2017.

2. THE DEED FOR THIS PARCEL IS RECORDED IN DEED BOOK 56483, PAGE 359 IN THE WORCESTER DISTRICT REGISTRY OF DEEDS.

3. ADDITIONAL INFORMATION WAS OBTAINED FROM THE FOLLOWING PLANS:

 A PLAN ENTITLED "SITE PLAN HUDSON AVENUE GRAFTON MASSACHUSETTS, PREPARED FOR RECORD OWNER MICHAEL C. & ERICA R. SIEMASZKO", PREPARED BY TAUPER LAND SURVEY, INC.

OXFORD, MA, DATED JANUARY 20, 2017. • A PLAN ENTITLED "PLAN OF LAND, 12-14 HUDSON AVENUE, GRAFTON, MA", PREPARED BY H. S. & T. GROUP, INC., DATED JANUARY 22,

3. TTHE GRAFTON ASSESSORS MAPS SHOW THIS PARCEL AS MAP 110 BLOCK 073.0 LOT

4. THIS PROPERTY IS PART OF THE LOW DENSITY RESIDENTIAL ZONING DISTRICT, R-40. 5. THIS PROPERTY IS PART OF TOWN OF GRAFTON WATER SUPPLY PROTECTION

6. ELEVATIONS SHOWN HEREON ARE REFERENCED TO AN ASSUMED DATUM. 7. THE SITE IS NOT LOCATED WITHIN THE 100-YEAR FLOOD ZONE AS SHOWN ON THE FEMA FIRM FOR WORCESTER COUNTY, MA MAP NUMBER 25027C0829E, EFFECTIVE DATE JULY 4, 2011.

GENERAL NOTES:

THE INSTALLER SHALL BE APPROVED TO WORK IN THE TOWN OF GRAFTON

2. THE INSTALLER MUST WORK FROM A COPY OF THE APPROVED PLAN TO INSTALL THE SYSTEM. A COPY OF THE APPROVED PLAN SHALL BE AVAILABLE AT ALL TIMES AT

3. ALL REQUIRED PERMITS SHALL BE SECURED BY THE OWNER OR CONTRACTOR PRIOR 4. ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE LOCATION.

CONTRACTOR MUST VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES AFFECTED BY THE WORK PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION, DISTURBANCE AND/OR REPLACEMENT OF ALL EXISTING UTILITIES ENCOUNTERED PRIOR TO OR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY "DIG-SAFE" (811) 72 HOURS PRIOR TO CONSTRUCTION (EXCLUDING SATURDAYS. SUNDAYS AND HOLIDAYS).

5. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STATE SANITARY CODE (TITLE 5), TOWN OF GRAFTON REGULATIONS AND STANDARDS, AND STATE AND FEDERAL REGULATIONS.

6. THE SUBSURFACE DISPOSAL SYSTEM DESIGN DOES NOT INCLUDE A GARBAGE GRINDER. A GARBAGE GRINDER SHALL NOT BE INSTALLED IN THE BUILDING SERVED

7. NO WATER TREATMENT, CONDITIONING OR SOFTENING SYSTEMS SHALL BE CONNECTED TO THE ON-SITE SEPTIC SYSTEM.

8. THE CONTRACTOR SHALL REFER TO THE APPROVED BUILDING PERMIT PLANS FOR THE EXACT DIMENSIONS AND LOCATIONS OF BUILDING APPURTENANCES AND UTILITY ENTRANCE LOCATIONS. CONTRACTOR SHALL REVIEW AND MAKE THEMSELVES FAMILIAR WITH THE CONSTRUCTION DOCUMENTS PRIOR COMMENCEMENT OF CONSTRUCTION. OWNER OR CONTRACTOR SHALL NOTIFY DESIGN ENGINEER IMMEDIATELY IN WRITING OF ANY DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS. WORK PERFORMED PRIOR TO NOTIFYING DESIGN ENGINEER WILL BE THE RESPONSIBILITY OF THE OWNER AND CONTRACTOR.

12. NO CHANGES TO THE DESIGN SHOWN ON THE DRAWINGS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE APPROPRIATE LOCAL, STATE AND FEDERAL APPROVING AUTHORITY AND THE DESIGN ENGINEER.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING ALL CONTROL POINTS AND BENCHMARKS NECESSARY FOR THE WORK. 14. STOCKPILING OF MATERIALS, AND STORAGE OF EQUIPMENT OVER THE PROPOSED

PRIMARY AND RESERVE LEACHING AREAS IS PROHIBITED AT ALL TIMES. 15. EXCAVATION AND FLAGGING OF THE SOIL ABSORPTION SYSTEM SHALL CONFORM TO

310 CMR 15.246. 16. THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED SURVEYOR TO LAY OUT THE SITE CONSTRUCTION.

17. THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF AS-BUILT LOCATIONS OF ALL UNDERGROUND AND ABOVE GROUND UTILITIES. THE CONTRACTOR SHALL PROVIDE THE TOWN AND H. S. & T. GROUP, INC. WITH COMPLETE AS-BUILT PLANS UPON COMPLETION OF THE PROJECT. 18. THERE ARE NO EXISTING OR PROPOSED STORMWATER DRAINAGE FACILITIES ON-SITE

OR WITHIN THE MINIMUM SETBACKS OF TITLE 5. 19. THERE ARE NO KNOWN WELLS WITHIN 150 FEET OF THE PROPOSED SEPTIC SYSTEM.

20. ALL UNSUITABLE OR IMPERMEABLE SOILS, INCLUDING FILL AND THE TOP AND SUBSOIL, SHALL BE REMOVED IN THE AREA OF THE LEACHING TRENCHES. THE EXCAVATION OF THE MATERIAL SHALL EXTEND A MINIMUM OF FIVE FEET LATERALLY IN ALL DIRECTIONS BEYOND THE OUTER PERIMETER OF THE SOIL ABSORPTION SYSTEM TO THE DEPTH OF NATURALLY OCCURRING PERVIOUS MATERIAL REQUIRED BY 310 CMR 15.240 AND REPLACED WITH MATERIAL MEETING THE SPECIFICATIONS OF 310 CMR 15.255(3).

21. THE AREA OR AREAS OF ENTRANCE AND EXIT TO AND FROM THE SITE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE PUBLIC RIGHT-OF-WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO THE PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

22. THE CONTRACTOR SHALL CONTROL AIRBORNE DUST WITH USE OF SPRAYED WATER AS NECESSARY TO MINIMIZE IMPACT ON NEIGHBORING PROPERTIES.

SOIL EVALUATION DATA

SOIL EVALUATION AND OBSERVATION

PERFORMED ON 11/13/17 BY PATRICK BURKÉ, H. S. & T. GROUP, INC. WITNESSED BY PHILIP LEGER, GRAFTON BOARD OF HEALTH AGENT

0"-4"

4"-120 C 2.5Y 7/7 SAND SINGLE GRAIN, LOOSE NO GROUNDWATER OR MOTTLING OBSERVED

0"-4" 4"-120 C 2.5Y 7/7 SAND NO GROUNDWATER OR MOTTLING OBSERVED

0"-4" 4"-120 C 2.5Y 7/7 SAND SINGLE GRAIN, LOOSE

NO GROUNDWATER OR MOTTLING OBSERVED

A10

0"-4" 4"-120 C 2.5Y 7/7 SAND SINGLE GRAIN, LOOSE NO GROUNDWATER OR MOTTLING OBSERVED

PERC TEST PERFORMED AT 24"-42"" PERC RATE: 24 GALLONS POURED IN LESS THAN 15 MINUTES USE <2 MPI

PERC TEST PERFORMED AT 30"-48" PERC RATE: 24 GALLONS POURED IN LESS THAN 15 MINUTES USE <2 MPI

SINGLE GRAIN, LOOSE

DESIGN CRITERIA:

HYDRAULIC LOADING RATE:

5 BEDROOMS x 110 GALLONS PER DAY (GPD) = 550 GPD THIS DESIGN DOES NOT ALLOW FOR THE USE OF A GARBAGE GRINDER

LONG TERM ACCEPTANCE RATE (LTAR):

2 MINUTES/INCH CLASS I SOIL = 0.74 GPD/SF

SOIL ABSORPTION SYSTEM:

EFFECTIVE AREA REQUIRED BASED ON LTAR = 550 GPD/(0.74 GPD/SF) = 744 SF

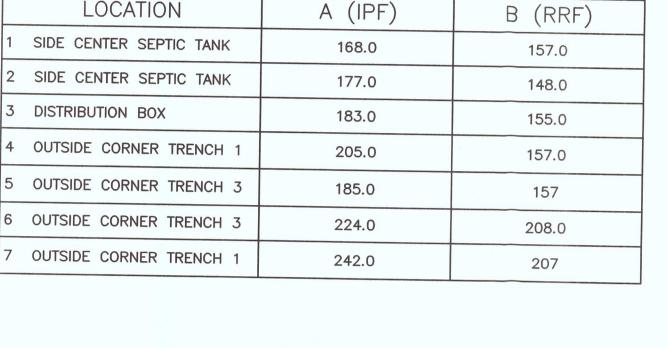
EFFECTIVE AREA FOR 1' DEEP x 3' WIDE TRENCHES = $(2 SIDEWALLS \times 1') + 3' BOTTOM = 5 SF/LF$ 744 SF/(5 SF/LF) = 148.8 LF TRENCH LENGTH (REQUIRED)

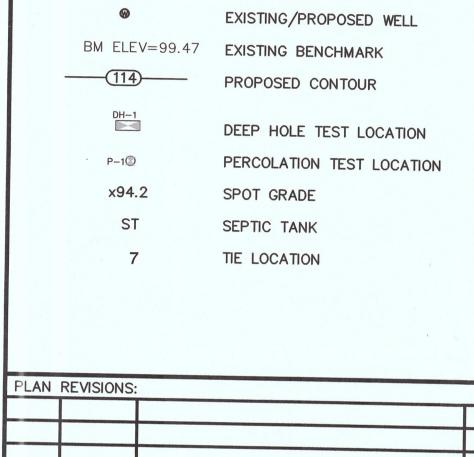
USE 3 ROWS, 50 LF EACH = 150 LF TOTAL CHAMBER LENGTH

EFFECTIVE AREA (PROVIDED) = 150 LF x (5 SF/LF) = = 750 SF (PROVIDED) > 744 SF LEACHING AREA (REQUIRED)

550 GPD x 200% = 1,100 GPD MINIMUM REQUIRED WITHOUT GARBAGE GRINDER; USE 1,500 GALLON TANK

	LOCATION	A (IPF)	B (RRF)
1	SIDE CENTER SEPTIC TANK	168.0	157.0
2	SIDE CENTER SEPTIC TANK	177.0	148.0
3	DISTRIBUTION BOX	183.0	155.0
4	OUTSIDE CORNER TRENCH 1	205.0	157.0
5	OUTSIDE CORNER TRENCH 3	185.0	157
6	OUTSIDE CORNER TRENCH 3	224.0	208.0
7	OUTSIDE CORNER TRENCH 1	242.0	207





LEGEND & ABBREVIATIONS

RRF

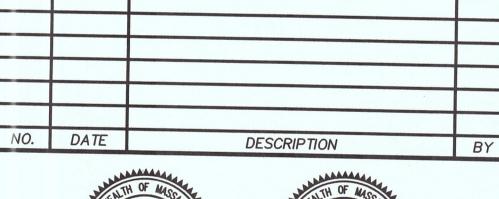
PROPERTY LINE

EXISTING 1' CONTOUR

EXISTING 5' CONTOUR

EXISTING PROPERTY PIN

HORIZONTAL SCALE 1"=40'









H. S. & T. GROUP, INC.

PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS 75 HAMMOND STREET - 2ND FLOOR WORCESTER, MASSACHUSETTS 01610-1723 PHONE: (508) 757-4944 FAX: (508) 752-8895 EMAIL: INFO@HSTGROUP.NET WWW.HSTGROUP.NET

SUBSURFACE DISPOSAL

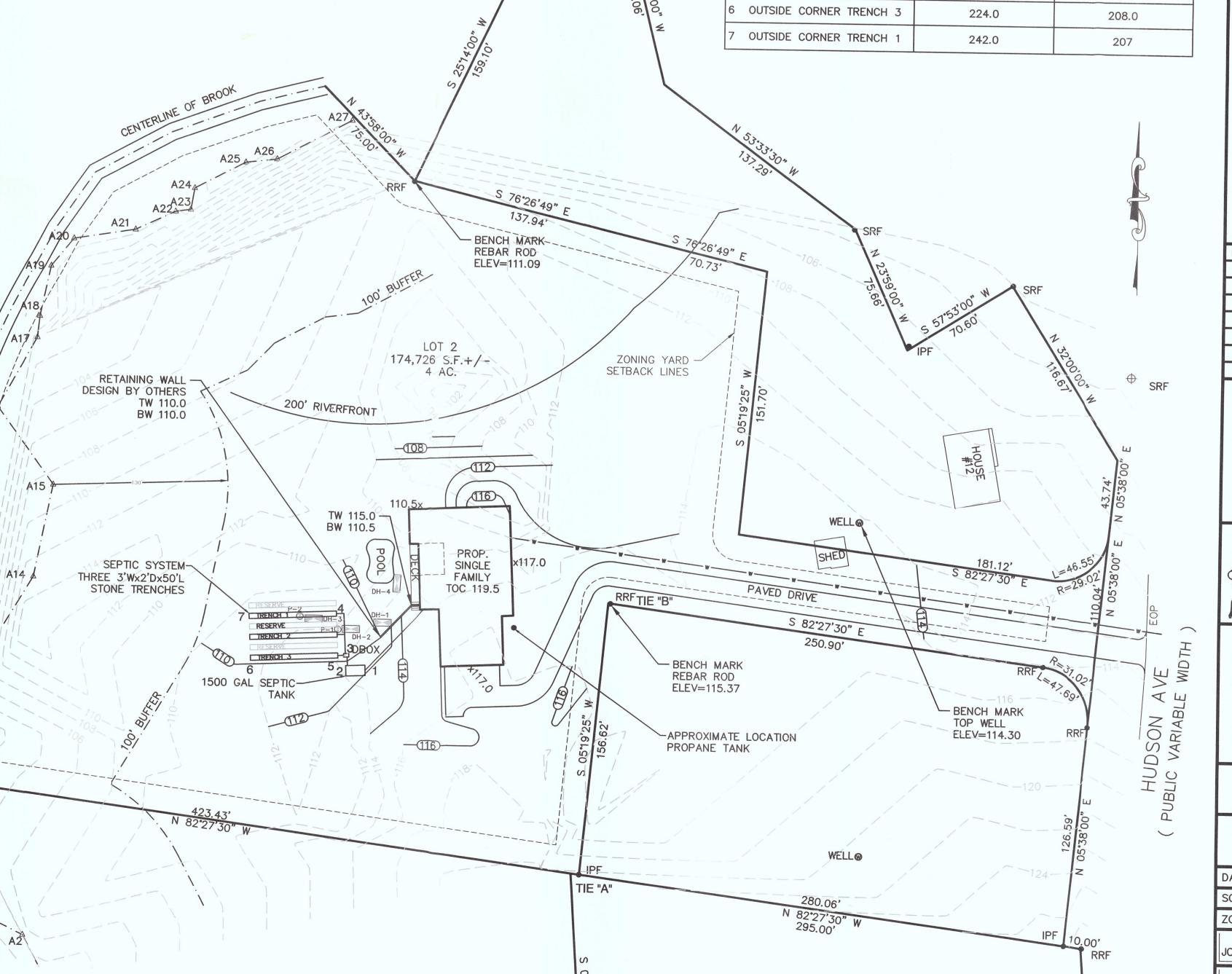
SYSTEM 14 HUDSON AVENUE

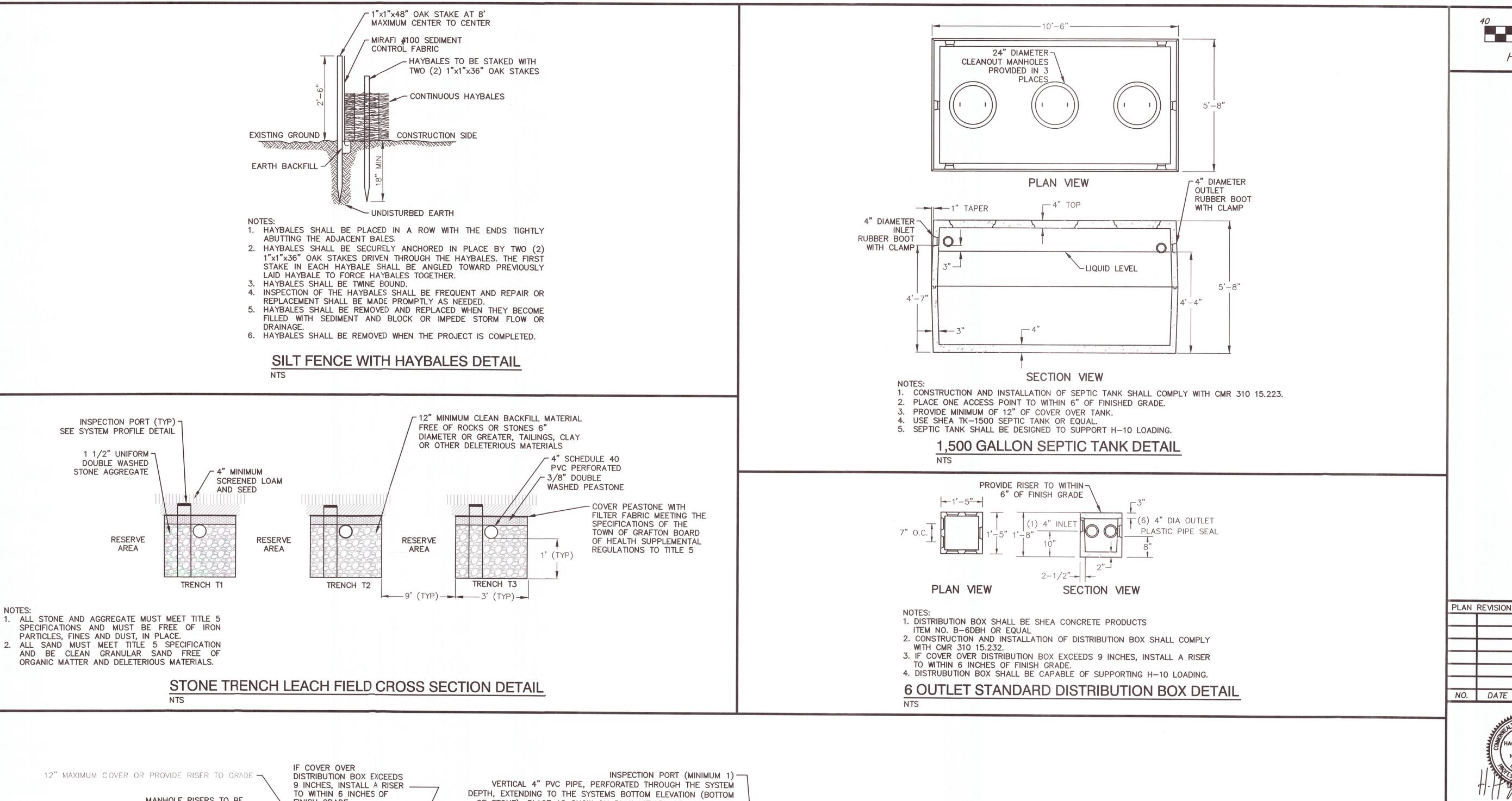
GRAFTON MA

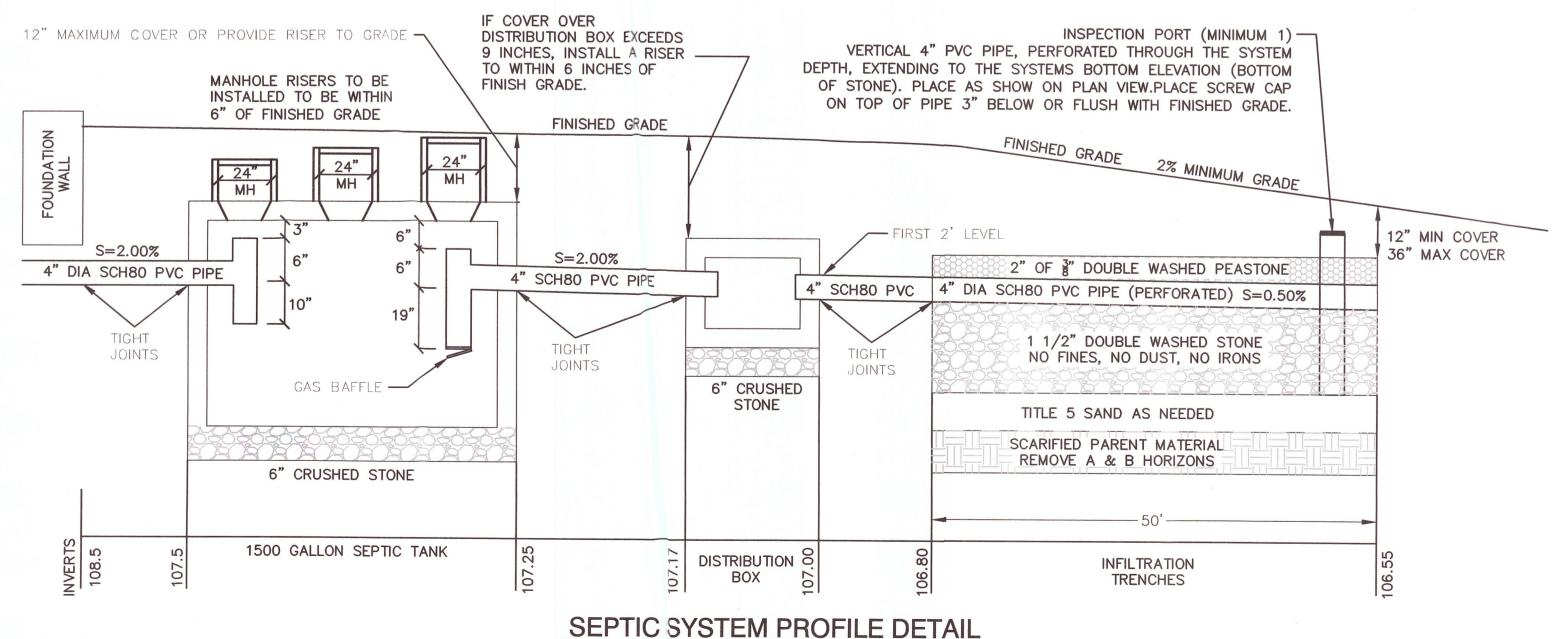
APPLICANT(S): ERICA & MICHAEL SIEMASZKO 12 HUDSON AVENUE, GRAFTON MA 01519

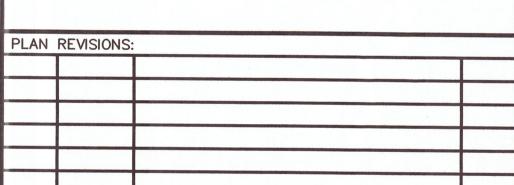
OWNER(S): ERICA & MICHAEL SIEMASZKO

12 HUDS	ON AVENUE,	GRAFTON MA 01519	
DATE: 02/27/2018	COMP'D: DJT	FIELD:	PS
SCALE: 1"=40'	CAD: CAR	FLD. BK:	
ZONE:	REV'D: HH	DWG:	XX
ов NUMBER: 6324		SHEET NUMBER	
OWG NUMBER:	6207	I of Z	









HORIZONTAL SCALE 1"=40'







H. S. & T. GROUP, INC.

DESCRIPTION

PROFESSIONAL CIVIL ENGINEERS & LAND SURVEYORS
75 HAMMOND STREET - 2ND FLOOR
WORCESTER, MASSACHUSETTS 01610-1723
PHONE: (508) 757-4944 FAX: (508) 752-8895
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DETAILS

14 HUDSON AVENUE GRAFTON MA 01519

APPLICANT(S):
ERICA & MICHAEL SIEMASZKO
12 HUDSON AVENUE, GRAFTON MA 01519

OWNER(S):
ERICA & MICHAEL SIEMASZKO
12 HUDSON AVENUE, GRAFTON MA 01519

DWG NUMBER: 6207		2 OF 2	
JOB NUMBER:	6324	SHEET NUMBER	
ZONE:	REV'D: HH	DWG:	X
SCALE: 1"=40'	CAD: CAR	FLD. BK:	
DATE: 01/26/2018	COMP'D: DJT	FIELD:	P